INDEX OF ABSTRACTS

Volume 10 (1981)

ABD-ALLA, A. A. and ABOUAMMOH, A. M. A comparative study on estimation of a Markovian process-I, 81t-91.

ABD-ALLA, A. A. and ABOUAMMOH, A. M. Modified congruential methods for random numbers generation (preliminary report), 81t-32.

ABDEL-HAMEED, MOHAMED S. Life distribution properties of devices subject to a killed Lévy process, 81t-102.

ABOUAMMOH, A. M. and ABD-ALLA, A. A. A comparative study on estimation of a Markovian process-I, 81t-91.

ABOUAMMOH, A. M. and ABD-ALLA, A. A. Modified congruential methods for random numbers generation (preliminary report), 81t-32.

ADAM, Khursheed and SAXENA, K. M. Lal. Estimation of the non-centrality parameter of a chi-square distribution, 177-48.

AHMAD, Ibrahim A. Limit theorems and their remainder terms in renewal theory, 177-11.

AHMED, Essam A. and EL-HELBAWY, Abdalla T. Optimal design results for 2^n factorial paired comparisons experiments, 177-23.

ALDOUS, David J. Random walk on the d-cube and rapidly mixing Markov chains, 176-23.

ALI, Mir Masoom, UMBACH, Dale and HASSANEIN, Khatab M. Small sample estimation of exponential quantiles with two order statistics, 81t-50.

ALI, Mir Masoom, UMBACH, Dale and HASSANEIN, Khatab M. Small sample quantile estimation of Pareto populations using two order statistics, 81t-51.

AMMANN, Larry. The number of misses from Gauss-Poisson shots, 177-50.

ANDERSON, T. W. and STYAN, G. P. H. Cochran's theorem, rank additivity and tripotent matrices, 81t-17.

ARNOLD, Barry C. and BROCKETT, Patrick L. Bayesian competing risks (preliminary report), 177-92.

ARRATIA, Richard. Simple symmetric exclusion motions on Z (preliminary report), 177-97.

ASSAF, David N. and LEVIKSON, Benny. Closure of Phase type distributions under operations arising in reliability theory, 81t-88.

BARTOSZYNSKI, Robert and PURI, Prem S. On the rate of convergence for the weak law of large numbers, 81t-111.

BASU, Asit P.and KLEIN, John P. On estimating safe dose levels when there are multiple diseases, 178-11.

BASU, Asit P. Some recent results in competing risks theory, 178-15.

BASU, D. and CHENG, S. A note on the notion of adequacy (preliminary report), 177-69.

BEGUN, Janet M. and WELLNER, Jon A. A representation theorem for estimates of relative risk, 81t-56.

BELLOW, Mike and CHEN, Wen-chen. Adaptive models for self-organizing systems, 177-13.

BENJAMINI, Yoav. Comparing shapes of symmetric distributions, 177-37.

BERAN, R. J. Nonparametric regression with randomly censored survival data, 81t-113.

BERGER, James. Multivariate estimation and confidence regions: a review of the Stein effect, 177-98.

BERGER, R. W., ROYALTY, Dan R., KEGLEY, J. Colby and DAVID, H. T. An asymptotic stochastic view of a noisy duel, 177-87.

BERMAN, Simeon M. Local times for stochastic processes which are subordinate to Gaussian processes, 175-5.

BERTIN, Emile and THEODORESCU, Radu. Some characterizations of discrete unimodality, 81t-43.

BERTIN, E. M. J., HENTGARTNER, W. and THEODORESCU, Radu. Some characterizations of unimodal distribution functions, 81t-29.

BHATTACHARYYA, Gouri K. and FRIES, Arthur. Inverse Gaussian regression with application to accelerated life tests, 178-3.

BHATTACHARYA, P. K. Nonparametric test for the slope of a truncated regression, 176-12.

BICKEL, Peter J. and FREEDMAN, D. A. More on bootstrapping regression models, 177-30.

BJERVE, Steinar. Uniform confidence limits for nonparametric regression, 176-31.

BLOCK, Henry W. and SAVITS, Thomas H. Decomposition for continuous state monotone structure functions, 177-8.

BLOCK, Henry W. and SAVITS, Thomas H. A decomposition for multistate monotone systems, 81t-47.

BLOCK, Henry W. and SAVITS, Thomas H. Some concepts of negative dependence, 178-12.

BOYLES, Russell and SAMANIEGO, Francisco J. Estimating a survival curve based on nomination sampling, 178-7.

BRADLEY, Richard C., Jr. Information regularity and the central limt question, 81t-39.

BRAUN, Henry I. Applications of empirical Bayes to sparse data problems, 176-4.

BRICKER, J. L., MANN, N. R., and SCHAFER, R. E. A recursive approach for obtaining exact confidence bound from exponential time-censored data--with tables, 178-8.

BRILLINGER, David R. The comparison of least squares and third-order periodogram procedures in the estimation of bifrequency, 176-24.

BROCKETT, Patrick L. and ARNOLD, Barry C. Bayesian competing risks (preliminary report), 177-92.

BROCKWELL, P. J. Dams with dependent inputs and the Hurst phenomenon, 177-82.

BRUNK, H. D. Boolean universes for stochastic models, 177-36.

BRUNK, H. D. Multivariate density estimation by Bayesian least squares, 176-15.

BURTON, Catherine T. and CHAKRAVARTI, I. M. Refined information from BIB designs with known groups of symmetries, 177-88.

BUSTOS, Oscar Humberto. Qualitative robustness for general processes, 81t-59.

BUSTOS, Oscar and YOHAI, Victor Jaime. Robust estimates for ARMA models, 177-78.

CALHOUN, Carol Ann and TAYLOR, Robert Lee. Stochastic convergence of randomly weighted sums of random elements, 177-35.

CAMPBELL, Gregory. Asymptotic properties of several nonparametric multivariate distribution function estimators under random censoring, 178-13.

CARROLL, R. J. A review of recent work on power transformation, 177-91.

CHAKRAVARTI, I. M. and BURTON, Catherine T. Refined information from BIB designs with known groups of symmetries. 177-88.

CHAKRAVARTI, I. M. Serially balanced factorial designs from p_n^s cycles, 81t-100.

CHANDA, Kamal C. Sampling properties of statistics derived from linear processes, 177-7.

CHANG, I. S. and HSIUNG, Chao A. Another look at the consistency of polynomial regression, 81t-26.

CHANG, I. S. and HSIUNG, Chao A. Consistency in regression models specified by differential equations, 81t-28.

CHEN, Hubert J. A new range statistic for comparisons of several exponential location parameters, 177-10.

CHEN, Hubert J. A new range test for comparisons of several exponential location parameters, 81t-48.

CHEN, Wen-chen and BELLOW, Mike. Adaptive models for self-organizing systems, 177-13.

CHENG, Kuang-fu. Nonparametric estimators for percentile regression functions, 175-3.

CHENG, Philip E. Strong consistency of nearest neighbor regression estimates (preliminary report), 175-7.

CHENG, S. and BASU, D. A note on the notion of adequacy (preliminary report), 177-69.

CHERNICK, Michael R. Extremes in autoregressive processes with uniform marginal distributions, 176-1.

CHERNICK, Michael R. A relationship between EAR(1) processes and Tavares' exponential Markovian processes, 177-4.

CHIKUSE, Yasuko. A multivariate extension of the Meixner classes of distributions, 176-30.

CHIKUSE, Yasuko. Optimality of statistical inferences in the more general linear multivariate models, 177-24.

CHOPRA, Dharam V. On the maximum constraints for some balanced arrays, 81t-95.

CHOPRA, Dharam V. Some combinatorial results on balanced arrays, 81t-35.

CHOPRA, Dharam Vir. Some results on balanced arrays of strength four, 81t-98.

CHOW, Y.-S., GEMAN, S. and WU, L. Consistent cross-validated density estimation, 177-62.

COFFEY, John and TANNY, David. A necessary and sufficient condition for non-certain extinction of a supercritical branching process in a random environment (BPRE), 81t-78.

COGBURN, Robert. Markov chains in random ergodic environments, 177-73.

COHEN, Arthur, MARDEN, John and SINGH, Kesar. Asymptotic and non-asymptotic optimality properties for combined tests, 81t-27.

COHEN, Michael P. and KUO, Lynn. Minimax estimation of a distribution function for finite population sampling, 81t-110.

COHN, Harry. The Seneta case for the supercritical Bellman-Harris process, 81t-13.

CONSTANTINE, Gregory M. On e-optimality, 81t-2.

COX, Dennis D. Metrics on stochastic processes and qualitative robustness, 176-33.

COX, Ted. An application of a duality relation to entrance and exit laws for Markov processes, 177-16.

CRYER, Jonathan and LEDOLTER, Johannes. Small sample properties of the maximum likelihood estimator in the first order moving average model, 177-47.

DALAL, Siddhartha R. Nonparametric Bayes inference for concordance in bivariate distribution, 175-8.

DALAL, S. R. Simultaneous confidence bands for random intercept regression and regression with unequal variances, 81t-101.

DALEY, Daryl J. Point processes of infinite intensity, 177-99.

DAVE, H. B. On priority queues (preliminary report), 81t-58.

DAVE, H. B. Priority queues (preliminary report), 81t-19.

DAVID, H. T., ROYALTY, Dan R., KEGLEY, J. Colby, and BERGER, R. W. An asymptotic stochastic view of a noisy duel, 177-87.

DAVIDSON, M., MOSCHOPOULOS, Panagis G., and DAVIS, H. T. ANOVA with random sample sizes, 175-1.

DAVIS, H. T., MOSCHOPOULOS, Panagis G., and DAVIDSON, M. ANOVA with random sample sizes, 175-1.

DAVIS, Richard A. Limit laws for the maximum and minimum of stationary sequences, 177-45.

DEHAAN, L. and RESNICK, Sidney. Local limit theorems for sample extremes, 177-44.

DESHPANDE, Jayant V. A class of tests for exponentiality against IFRA alternatives, 81t-1.

DESU, M. M. Testing for crossing hazards (preliminary report), 178-4.

DEY, Dipak Kumar. On the choice of coordinates in simultaneous estimation of normal means under misspecification of priors, 81t-65.

DEY, Dipak Kumar. On inclusion of extreme observations in simultaneous estimation of normal means, 81t-22.

DINH, Khoan T. and SINGH, Jagbir. Minimum variance unbiased estimation of multivariate normal distribution and inferences, 178-22.

DISNEY, Ralph L. Queueing networks: an overview, 177-46.

DODGE, Yadolah. Robust estimation of linear regression coefficients by minimizing a convex combination of least absolute and least squares deviations (preliminary report), 81t-112.

DUDEWICZ, Edward J. and TANEJA, Vidya S. The heteroscedastic method: multivariate implementation, 177-38.

DUMOUCHEL, William H. and HARRIS, Jeffrey E. Bayes and empirical Bayes methods for combining cancer experiments in man and other species, 175-21.

DYKSTRA, Richard L. and FELTZ, Carol. Maximum likelihood estimation of stochastically ordered distributions, 178-5.

DYKSTRA, Richard and ROBERTSON, Tim. Order restricted statistical tests on multinomial and Poisson parameters: the starshaped restriction, 177-53.

EISENBERG, Bennett. The asymptotic solution of the Kiefer-Weiss problem for observations from an exponential family, 81t-104.

EISENBERG, Bennett and GHOSH, B. K. On the sample size of curtailed tests, 175-25.

EL-HELBAWY, Abdalla T_n and AHMED, Essam A. Optimal design results for 2^n factorial paired comparisons experiments, 177-23.

EPLETT, W. J. R. The inadequacy of linear rank tests and some non-linear alternatives, 177-19.

EUBANK, Randall, SMITH, Patricia L. and SMITH, Philip W. Asymptotic and uniqueness properties of regression designs for certain time series models, 177-12.

EVANS, Michael. Confidence bands for bivariate quantiles, 176-6.

FELTZ, Carol and DYKSTRA, Richard L. Maximum likelihood estimation of stochastically ordered distributions, 178-5.

FENECH, Alan. Asymptotic validity of normal theory multiple comparisons methods in randomization models, 176-32.

FERREIRA, Pedro E. Extending Fisher's measure of information, 81t-25.

FERREIRA, Pedro E. Multiparametric estimating equations, 81t-71.

FILL, James Allen. Convergence rates related to the strong law of large numbers, 176-7.

FLIGNER, Michael A. and RUST, Steven W. A modification of the Kruskal-Wallis test statistic (preliminary report), 81t-86.

FOX, Martin. An example of an inadmissible best invariant estimator: the i.i.d. case, 177-18.

FRANK, Jess and WHITE, Tom. Analysis of covariance matrices with linear structure: a computer program, 176-35.

FREEDMAN, David. An assessment of an energy demand model, 176-21.

FREEDMAN, D. A. and BICKEL, Peter J. More on bootstrapping regression models, 177-30.

FRIES, Arthur and BHATTACHARYYA, Gouri K. Inverse Gaussian regression with application to accelerated life tests, 178-3.

FU, James C. Large sample point estimation: a large deviation theory approach, 176-8.

GALIL Z. and KIEFER, J. Characterization and construction of d-optimum weighing designs, 177-5.

GARDINER, Joseph C. and SUSARLA, V. Properties of a nonparametric estimator of the survival function under progressive censoring, 178-21.

GEISSER, Seymour. Aspects of the predictive and extimative approaches in the determination of probabilities, 175-20.

GEMAN, S., CHOW, Y.-S., and WU, L. Consistent cross-validated density estimation, 177-62.

GEMAN, Stuart. Cross-validation and maximum likelihood for nonparametric density estimation, 176-26.

GENIZI, Abraham, LAHAV, Emmanuel and PUTTER, Joseph. Estimation of the variance between units of given size from experimental data, 81t-54.

GHOSH, B. K. and EISENBERG, Bennett. On the sample size of curtailed tests, 175-25.

GHOSH, Malay. Estimates of multiple Poisson means: Bayes and empirical Bayes, 177-28.

GHOSH, Subir. Information in an observation in robust designs, 81t-45.

GHOSH, Subir. Robustness of designs against the unavailability of data, 81t-30.

GILSTEIN, C. Zachary. Bounds for expectations of linear combinations of order statistics (preliminary report), 177-100.

GOVINDARAJULU, Z. and GRIFFITH, William S. Consecutive k out of n failure systems, 178-16.

GREER, Rick. Consistent nonparametric estimation of best linear classification rules, 176-10.

GREGORY, G. G. and SCHUSTER, E. F. On the nonconsistency of maximum likelihood nonparametric density estimators, 177-80.

GREGORY, Gavin G. The weak convergence of mean residual life processes for randomly censored data, 81t-106.

GRIFFITH, William S. and GOVINDARAJULU, Z. Consecutive k out of n failure systems, 178-16.

GROENEBOOM, Piet. Asymptotic behavior of tests based on the convex minorant of the empirical distribution function, 176-20.

GROENEBOOM, Piet and PYKE, Ronald. Asymptotic normality of statistics based on the convex minorants of empirical distributions (preliminary report), 81t-66.

GROSS, Shulamith T. On asymptotic power and efficiency of tests of independence in contingency tables with ordered classifications, 177-65.

GUPTA, Pushpa Lata. Structural properties and estimation in $M|E_k|1$ queue, 81t-108.

GUPTA, Pushpa Lata and GUPTA, Ramesh C. Probability of ties and Markov property in discrete order statistics, 81t-107.

GUPTA, Ramesh C. On the determination of mixing density in reliability studies, 178-17.

GUPTA, Ramesh C. On the mean residual life function in survival studies, 81t-10.

GUPTA, Ramesh C. and GUPTA, Pushpa Lata. Probability of ties and Markov property in discrete order statistics, 81t-107.

GUTTMAN, I., MENZEFRICKE, U. and TYLER, D. Multiplicative effects in the normal multivariate model, 177-103.

GUTTORP, Peter. Estimating the censoring distribution for stopped Poisson processes (preliminary report), 176-19.

HABERMAN, Shelby J. Exponential families of high dimension (preliminary report), 177-95.

HABERMAN, Shelby J. Tests for independence in two-way contingency tables based on canonical correlation and on linear-by-linear interaction, 175-23.

HAN, Chien-pai and WANG, John L. G. A formula for the noncentral F distribution, 177-58.

HANNUM, Robert C. and HOLLANDER, Myles. Robustness of Ferguson's Bayes estimator of a distribution function, 177-33.

HARRIS, Jeffrey E. and DUMOUCHEL, William H. Bayes ans empirical Bayes methods for combining cancer experiments in man and other species, 175-21.

HARRISON, J. Michael. Diffusion approximations for multidimensional storage processes, 177-49.

HASSANEIN, Khatab M., UMBACH, Dale and ALI, Mir Masoom. Small sample estimation of exponential quantiles with two order statistics, 81t-50.

HASSANEIN, Khatab M., ALI, Mir Masoom, and UMBACH, Dale. Small sample quantile estimation of Pareto populations using two order statistics, 81t-51.

HAYRE, Lakhbir S. A confidence interval approach for obtaining inspection schedules, 81t-103.

HEDAYAT, A. and HWANG, H. L. A characterization of BIB designs based on v treatments in blocks of size k whose number of blocks is at least $\binom{v}{k}$, 81t-36.

HEDAYAT, A. A characterization of a family of incomplete block designs with completely symmetric information matrices, 177-43.

HEDAYAT, A. and HWANG, H. L. A complete study of support sizes of BIB (10,30,9,3,2) designs, 177-32.

HENDRICKSON, John A., Jr. Distributions arising from binary occupancy tables (preliminary report), 175-19.

HENTGARTNER, W., BERTIN, E. M. J., and THEODORESCU, Radu. Some characterizations of unimodal distribution functions, 81t-29.

HEYDE, C. C. Modelling of gene survival in a founder population, 177-26.

HOLLANDER, Myles and HANNUM, Robert C. Robustness of Ferguson's Bayes estimator of a distribution function, 177-33.

HOLLEY, Richard and LIGGETT, Thomas M. Generalized potlatch and smoothing processes, 176-9.

HOLST, Lars and SIEGEL, Andrew F. Covering the circle with random arcs of random sizes, 177-94.

HONG, Suk-kang. A study on the trend of numbers of labour population in Korea, 81t-74.

HOQ, A. K. M. Sirajul. A new approach for the prediction of future ordered observations from the Weibul distribution, 81t-38.

HSIUNG, Chao A. and CHANG, I. S. Another look at the consistency of polynomial regression, 81t-26.

HSIUNG, Chao A. and CHANG, I. S. Consistency in regression models specified by differential equations, 81t-28.

HUFFMAN, Michael D. An efficient approximate solution to the Kiefer-Weiss problem, 176-5.

HUNTER, Jeffrey J. Generalized inverses and their application to applied probability problems, 81t-64.

HWANG, H. L. and HEDAYAT, A. A characterization of BIB designs based on v treatments in blocks of size k whose number of blocks is at least $\binom{v}{k}$, 81t-36.

HWANG, H. L. and HEDAYAT, A. A complete study of support sizes of BIB (10,30,9,3,2) designs, 177-32.

HWANG, J. T. Certain bounds on the class of admissible estimators in continuous exponential families, 81t-84.

HWANG, Jiunn Tzon. Semi tail upper bounds on the class of admissible estimators with application to Poisson and negative binomial families, 177-2.

IACHAN, Ronaldo. An asymptotic theory of systematic sampling, 177-17.

ISAACSON, D. and SENETA, E. Ergodic behavior for homogeneous and inhomogeneous Markov chains, 177-61.

ISOGAWA, Yoshiko and OKAMOTO, Masashi. Asymptotic confidence regions for a linear structural relationship, 81t-62.

IZENMAN, Alan J. and SIDDIQUI, M. M. High-resolution frequency analysis of sunspot numbers, 177-55.

JAGERS, Peter and NERMAN, Olle. The stable doubly infinite pedigree process of supercritical branching populations, 81t-97.

JANARDAN, K. G. and RAO, B. Raja. An analog of the Rao-Rubin condition for distributions other than the Poisson, 81t-73.

JANARDAN, K. G. and RAO, B. Raja. A Lagrangian gamma distribution of the second kind, 81t-72.

JEWELL, Nicholas P. and ROMANO, Joseph P. Coverage problems and random convex hulls, 177-104.

JOGDEO, Kumar and PROSCHAN, Frank. Negative association of random variables, 177-64.

JOHN, Peter W. M. Incomplete block designs for the 2^3 association scheme, 177-72.

JOHNSON, Norman L. and KOTZ, Samuel. Dependent relevations, 81t-21.

JUREK, Zbigniew J. Limit distributions and one-parameter groups of linear operators on Banach spaces, 81t-53.

JUREK, Zbigniew J. Remarks on v-decomposable measures, 81t-31.

KADANE, Joseph B., SCHERVISH, Mark J. and SEIDENFELD, Teddy. The extent of non-conglomerability of finitely additive probabilities, 175-17.

KAFADAR, Karen, SPIEGELMAN, Clifford and RICE, John. Robust minimax estimation of location in small samples (preliminary report), 177-90.

KALBFLEISCH, J. D. and STRUTHERS, C. A. On the effects of omitting concomitants in proportional hazards modelling, 178-20.

KALIN, Dieter and THEODORESCU, Radu. A learning approach to sequential design, 81t-40.

KALIN, Dieter and THEODORESCU, Radu. A note on structural properties of the Bernoulli two-armed bandit problem, 81t-80.

KALIN, Dieter and THEODROESCU, Radu. On a stopping rule for a class of sequential decision problems, 81t-20.

KAMINSKY, Kenneth S. A characteristic property of the exponential distribution (preliminary report), 81t-81.

KANG, K. S. and PARK, C. J. A modified cluster sampling method of estimating the bacterial density in Xanthan Gum, 176-16.

KARIYA, Takeaki. A new concept of second order efficiency and its application to a missing data problem, 177-101.

KARIYA, T., KRISHNAIAH, P. R. and RAO, C. R. Inference on parameters of multivariate normal population with missing data, 175-16.

KARIYA, Takeaki, SINHA, Bimal K. and SUBRAMANYAM, Kasala. Nearly efficient estimators based on order statistics, 175-15.

KARR, A. F. and PITTENGER, A. O. Remplissage for Markov chains using hitting distributions, 175-13.

KEGLEY, J. Colby, ROYALTY, Dan R., DAVID, H. T., and BERGER, R. W. An asymptotic stochastic view of a noisy duel, 177-87.

KEMP, Adrienne W. A class of life distributions with flexible hazard functions, 177-86.

KEMP, C. D. and PAPAGEORGIOU, H. Simple methods for estimating the parameters of bivariate discrete distributions, 177-85.

KHAN, Rasul A. On confidence sequences for the parameters of a linear regression, 178-2.

KIEFER, J. and GALIL, Z. Characterization and construction of d-optimum weighing designs, 177-5.

KINDERMANN, Ross P. and LARICCIA, Vincent N. Closed form asymptotically efficient estimators based upon order statistics (preliminary report), 177-70.

KLEIN, John P. and BASU, Asit P. On estimating safe dose levels when there are multiple diseases, 178-11.

KLEINROCK, Leonard. Applications of queueing theory to computer communication networks, 177-93.

KLONIAS, V. K. A maximum penalized likelihood estimator of the density function with a "near normal" constraint (preliminary report), 175-18.

KNOX, William H. The local exact Bahadur slope of the Cramér-von Mises statistic, 81t-8.

KONHEIM, Alan G. Discrete-time queueing models, 177-51.

KORN, EDWARD L. and LIU, Ping-yu. Interactive effects of mixtures of stimuli in life table analysis, 178-10.

KORWAR, R. M. A characterization of a Polya-Eggenberger and other discrete distributions by record values, 81t-33.

KORWAR, R. M. A characterization of the Waring distribution, 81t-70.

KORWAR, R. M. and NAIK, D. N. Testing for equality of means with additional data on one variable: a likelihood ratio test and a Monte Carlo study, 178-1.

KOTZ, Samuel and SHANBHAG, D. N. Some new approaches to multivariate probability distributions, 81t-16.

KOTZ, Samuel and JOHNSON, NORMAN L. Dependent relevations, 81t-21.

KOUL, Hira Lal. Minimum integrated squared difference estimation in regression, 177-29.

KOUL, H. L. and SUSARLA, V. Adaptive efficient estimation in linear regression, 81t-109.

KOZIOL, James A. Distribution-free methods of growth curve analysis with application to an animal tumor immunotherapy experiment, 176-14.

KRISHNAIAH, P. R., KARIYA, T. and RAO, C. R. Inference on parameters of multivariate normal population with missing data, 175-16.

KUELBS, James. Some remarks on LIL behavior, 177-21.

KUO, Hui-hsiung. White noise analysis and stochastic differential equations (preliminary report), 175-26.

KUO, Lynn and COHEN, Michael P. Minimax estimation of a distribution function for finite population sampling, 81t-110.

KUO, Morgan and RAO, J. S. Testing goodness of fit using higher order spacings, 176-29.

LAHA, R. G. and ROHATGI, V. K. Operator self similar fields over R_k, 81t-63.

LAHAV, Emmanuel, GENIZI, Abraham and PUTTER, Joseph. Estimation of the variance between units of given size from experimental data, 81t-54.

LANGBERG, N. A. and LEVIKSON, B. A new look on the spread of epidemics by carriers, 177-79.

LARICCIA, Vincent N. and KINDERMANN, Ross P. Closed form asymptotically efficient estimators based upon order statistics (preliminary report), 177-70.

LARICCIA, Vincent N. and WEHRLY, THOMAS E. Minimum quantile distance estimators for randomly censored data (preliminary report), 177-68.

LAU, Ka-sing and RAO, C. Radhakrishna. Solution to the integrated Cauchy functional equation and characterization of the exponential law, 81t-96.

LAWLER, Gregory F. Self-avoiding random walks, 177-22.

LEDOLTER, Johannes and CRYER, Jonathan. Small sample properties of the maximum likelihood estimator in the first order moving average model, 177-47.

LEE, Chin-hui and MARTIN, R. D. M-estimates for ARMA processes, 176-36.

LEURGANS, Sue. Asymptotic efficiencies for 2-sample rank tests in the presence of random right-censoring, 176-3.

LEVIKSON, Benny and ASSAF, David N. Closure of phase type distributions under operations arising in reliability theory, 81t-88.

LEVIKSON, B. and LANGBERG, N. A. A new look on the spread of epidemics by carriers, 177-79.

LI, Lung-an and SEDRANSK, N. A new look at the Borel-Kolmogorov paradox, 177-77.

LIGGETT, Thomas M. and HOLLEY, Richard. Generalized potlatch and smoothing processes, 176-9.

LINDSAY, Bruce. The geometry of mixture likelihoods and properties of mixture maximum likelihood estimators, 177-41.

LIU, Ping-yu and KORN, Edward L. Interactive effects of mixtures of stimuli in life table analysis, 178-10.

LOCKHART, Richard. Large sample theory for Cox regression estimates, 176-27.

LOH, Wei-yin. The role of a "minimax" distribution in the problem of discriminating between simple hypotheses, 81t-9.

LONGBOTHAM, C. Roger. Some properties of the best linear estimate in the linear model, 177-83.

LOPES TROYA, Josefa. Optimal designs for covariates' model II, 81t-83.

MCCLURE, Donald E. Consistency maximum likelihood spline estimators of density functions, 177-63.

MCCORMICK, William P. Weak convergency of the jump sizes in the partial maxima sequence for dependent stationary sequences, 177-9.

MCLEISH, D. L. A robust alternative to the normal distribution, 176-25.

MCNICHOLS, Diane T. and PADGETT, W. G. A kernel density estimator from arbitrarily right-censored data (preliminary report), 178-19.

MACQUEEN, James. The order two simple Markov chains: an analysis using circuit processes, 176-13.

MANN, N. R., BRICKER, J. L. and SCHAFER, R. E. A recursive approach for obtaining exact confidence bounds from exponential time-censored data-- with tables, 178-8.

MANSKI, Charles F. Closest empirical distribution estimation, 177-54.

MARAZZI, Alfio. Robust Bayesian regression: minimization of the Bayes risk under constraint, 177-27.

MARDEN, John I. Admissibility of invariant tests in the general, 81t-52.

MARDEN, John I. Minimal complete classes of tests of hypotheses with one-sided alternatives, 81t-99.

MARDEN, John I., COHEN, Arthur and SINGH, Kesar. Asymptotic and non-asymptotic optimality properties for combined tests, 81t-27.

MARTIN, R. D. and LEE, Chin-hui. M-estimates for ARMA processes, 176-36.

MASON, David M. Laws of large numbers for sums of extreme values, 175-4.

MASON, David M. A minimax criterion for choosing weight functions for estimators of location based on L-estimates (preliminary report), 177-75.

MATUSZEWSKI, Andrzej and SOTRES, David. Pitman efficiencies of tests to compare location parameters for ordinal data, 177-3.

MENJOGE, Shailendra S. Improving minimax estimators under arbitrary quadratic loss function, 81t-49.

MENZEFRICKE, U., GUTTMAN, I. and TYLER, D. Multiplicative effects in the normal multivariate model, 177-103.

MIAMEE, A. G. and SALEHI, H. On an explicit representation of the linear predictor of a weakly stationary stochastic sequences, 81t-5.

MICHALEK, Joel E. and MIHALKO, Daniel P. A generalized Gehan test for 1:R matched observations subject to arbitrary right censorship, 81t-11.

MICHALEK, Joel E. and MIHALKO, Daniel P. A rank test for randomly right censored matched data, 81t-12.

MIHALKO, Daniel P. A Kolmogorov-Smirnov test using randomly censored data (preliminary report), 81t-15.

MIHALKO, Daniel P. and MICHALEK, Joel E. A generalized Gehan test for 1:R matched observations subject to arbitrary right censorship, 81t-11.

MIHALKO, Daniel P. and MICHALEK, Joel E. A rank test for randomly right censored matched data, 81t-12.

MORRIS, Carl N. Natural exponential families with quadratic variance function, 81t-93.

MOSCHOPOULOS, Panagis G., DAVIDSON, M. and DAVIS, H. T. ANOVA with random sample sizes, 175-1.

MUDHOLKAR, Govind S. and SUBBAIAH, Perla. Polars of partial sum norms and their application for MANOVA problem (preliminary report), 177-89.

MUKERJEE, Rahul and SINHA, Bikas Kumar. On the need to redefine universal optimality criterion of Professor Kiefer for full rank models, 81t-44.

MUKHOPADHYAY, Sunanda. On the e-optimality of some classes of GD designs under mixed effects models, 81t-77.

MUKHOPADHYAY, Sunanada. Optimality of generalised Youden designs (GYDs) under mixed effects models, 81t-76.

NADEAU, Raymond and THEODORESCU, Radu. Restricted Bayes strategies for convex stochastic programs, 81t-79.

NAGARSENKER, B. N. and NAGARSENKER, P. B. Distributions of LRT associated with two-parameter exponential distributions, 178-14.

NAGARSENKER, B. N. On the distribution of LRT for testing the equality of exponential distributions, 177-76.

NAGARSENKER, B. N. and NAGARSENKER, P. B. On the distribution of sphericity test for the residuals of space time ARMA models, 81t-87.

NAGARSENKER, P. B. and NAGARSENKER, B. N. Distributions of LRT associated with two-parameter exponential distributions, 178-14.

NAGARSENKER, P. B. and NAGARSENKER, B. N. On the distribution of sphericity test for the residuals of space time ARMA models, 81t-87.

NAIK, D. N. and KORWAR, R. M. Testing for equality of means with additional data on one variable: a likelihood ratio test and a Monte Carlo study, 178-1.

NERMAN, Olle and JAGERS, Peter. The stable doubly infinite pedigree process of supercritical branching populations, 81t-97.

OBENCHAIN, Robert L. Maximum likelihood ridge regression and the shrinkage pattern hypotheses, 81t-23.

O'BRIEN, G. L. Optimal stopping when sampling with and without replacement, 81t-57.

OKAMOTO, Masashi and ISOGAWA, Yoshiko. Asymptotic confidence regions for a linear structural relationship, 81t-62.

PADGETT, W. G. and MCNICHOLS, Diane T. A kernel density estimator from arbitrarily right-censored data (preliminary report), 178-19.

PANARETOS, John. A multivariate analogue of the Rao-Rubin condition for finite distributions, 177-42.

PANCHAPAKESAN, S. On a monotonicity property of the distributions of the studentized smallest and largest gamma, 175-12.

PAPAGEORGIOU,H. and KEMP, C. D. Simple methods for estimating the parameters of bivariate discrete distributions, 177-85.

PARIKH, Navin T. A mixture of two Poisson rectangular distributions, 81t-34.

PARK, C. J. and KANG, K. S. A modified cluster sampling method of estimating the bacterial density in Xanthan Gum, 176-16.

PARR, William C. Minimum distance--a survey, 177-31.

PATIL, S. A. Distribution of ratios of order statistics from gamma distribution, 176-17.

PEMBERTON, J. and TONG, H. A note on the distribution of non-linear autoregressive stochastic processes, 81t-18.

PESOTCHINSKY, Leon. Robust designs and optimality of least squares for linear regression, 176-18.

PHADIA, Eswer G. and DALAL, Siddhartha R. Nonparametric Bayes inference for concordance in bivariate distributions, 175-8.

PITTENGER, A. O. and KARR, A. F. Remplissage for Markov chains using hitting distributions, 175-13.

POLLARD, David B. A central limit theorem for k-means clustering, 81t-82.

POURAHMADI, Mohsen and SALEHI, H. On subordination of harmonizable sequences, 81t-7.

POURAHMADI, Mohsen. A sampling theorem for q-variate stationary processes, 81t-6.

PREGIBON, Daryl. Diagnostics for some nonlinear regression-type models, 176-22.

PRENTICE, R. L. Covariate measurement errors and parameter estimation in Cox's failure time regression model, 178-9.

PROSCHAN, Frank and JOGDEO, Kumar. Negative association of random variables, 177-64.

PRUSCHA, Helmut and THEODORESCU, Radu. Stationary probability distribution for multiresponse linear learning models, 81t-41.

PUKELSHEIM, Friedrich. On optimality properties of simple block designs in the approximate design theory, 81t-4.

PURI, Prem S. and BARTOSZYNSKI, Robert. On the rate of convergence for the weak law of large numbers, 81t-111.

PUTTER, Joseph, GENIZI, Abraham and LAHAV, Emmanuel. Estimation of the variance between units of given size from experimental data, 81t-54.

PYKE, Ronald and GROENEBOOM,Piet. Asymptotic normality of statistics based on the convex minorants of empirical distributions (preliminary report), 81t-66.

RAGHAVARAO, Damaraju. Missing observations in a general linear model, 177-39.

RAJPUT, Balram S. Zero-one dichotomy results for certain i.d. laws on linear spaces and groups and some related problems, 175-22.

RAMKARAN, Dr. Robustness of Stein's two-stage procedure, 81t-61.

RAO, B. Raja and JANARDAN, K. G. An analog of the Rao-Rubin condition for distributions other than the Poisson, 81t-73.

RAO, B. Raja and JANARDAN, K. G. A Lagrangian gamma distribution of the second kind, 81t-72.

RAO, C. R., KARIYA, T. and KRISHNAIAH, P. R. Inference on parameters of multivariate normal population with missing data, 175-16.

RAO, C. Radhakrishna and LAU, Ka-sing. Solution to the integrated Cauchy functional equation and characterization of the exponential law, 81t-96.

RAO, J. S. and KUO, Morgan. Testing goodness of fit using higher order spacings, 176-29.

RESNICK, Sidney and DEHAAN, L. Local limit theorems for sample extremes, 177-44.

RICE, John, KAFADAR, Karen and SPIEGELMAN, Clifford. Robust minimax estimation of location in small samples (preliminary report), 177-90.

RICKERT, Udo and THEODORESCU, Radu. Stationary probabilities and asymptotic behaviour of a non-Markovian model with linear transition rule, 81t-42.

RIEDER, Helmut. Strong laws for rank statistics, 81t-92.

ROBERTSON, Tim and DYKSTRA, Richard. Order restricted statistical tests on multinomial and Poisson parameters: the starshaped restriction, 177-53.

ROCKE, David M. Robust analysis of random effects models, (preliminary report), 177-74.

ROHATGI, V. K. and LAHA, R. G. Operator self similar fields over R_k, 81t-63.

ROMANO, Joseph P. and JEWELL, Nicholas P. Coverage problems and random convex hulls, 177-104.

ROSALSKY, Andrew. Almost certain limiting behavior of the tail series of independent summands, 177-6.

ROUSSEEUW, Peter J. Minimizing the gross-error sensitivity and the change-of-variance sensitivity of location M-estimators, 177-15.

ROYALTY, Dan R., KEGLEY, J. Colby, DAVID, H. T. and BERGER, R. W. An asymptotic stochastic view of a noisy duel, 177-87.

RUST, Steven W. and FLIGNER, Michael A. A modification of the Kruskal-Wallis test statistic (preliminary report), 81t-86.

SAHA, Gour Mohan and SINHA, Bikas Kumar. Some combinatorial aspects of designs useful in group testing experiments, 81t-14.

SAHA, G. M. and SINHA, Bikas K. Some combinatorial aspects of designs useful in group testing experiments--an addendum, 81t-75.

SALEHI, H. and MIAMEE, A. G. On an explicit representation of the linear predictor of a weakly stationary stochastic sequences, 81t-5.

SALEHI, H. and POURAHMADI, Mohsen. On subordination of harmonizable sequences, 81t-7.

SAMANIEGO, Francisco J. and BOYLES, Russell. Estimating a survival curve based on nomination sampling, 178-7.

SARKAR, Sanat K. A note on the power of the likelihood ratio test for MANOVA, 81t-89.

SARKAR, Sanat Kumar. Some further results of X^2 and related distributions with applications, 175-14.

SAVITS, Thomas H. and BLOCK, Henry W. Decomposition for continuous state monotone structure functions, 177-8.

SAVITS, Thomas H. and BLOCK, Henry W. A decomposition for multistate monotone systems, 81t-47.

SAVITS, Thomas H. and BLOCK, Henry W. Some concepts of negative dependence, 178-12.

SAXENA, K. M. Lal and ADAM, Khursheed. Estimation of the non-centrality parameter of a chi-square distribution, 177-48.

SCHAFER, R. E., BRICKER, J. L. and MANN, N. R. A recursive approach for obtaining exact confidence bounds from exponential time-censored data-- with tables, 178-8.

SCHERVISH, Mark J., SEIDENFELD, Teddy and KADANE, Joseph B. The extent of non-conglomerability of finitely additive probabilities, 175-17.

SCHUSTER, E. F. and GREGORY, G. G. On the nonconsistency of maximum likelihood non-parametric density estimators, 177-80.

SCOTT, Elizabeth L. Comparison of two treatments when there may be an initial effect, 178-18.

SEDRANSK, N. and LI, Lung-an. A new look at the Borel-Kolmogorov paradox, 177-77.

SEIDENFELD, Teddy, SCHERVISH, Mark J. and KADANE, Joseph B. The extent of non-conglomerability of finitely additive probabilities, 175-17.

SEN, Pranab Kumar. Recursive residuals, invariance principles and CUSUM tests, 175-6.

SENETA, E. and ISAACSON, D. Ergodic behavior for homogeneous and inhomogeneous Markov chains, 177-61.

SENGUPTA, S. K. and SENGUPTA, S. S. A representation of Markov chains in discrete and continuous time, 177-1.

SENGUPTA, S. S. and SENGUPTA, S. K. A representation of Markov chains in discrete and continuous time, 177-1.

SERFLING, Robert J. W-statistics (preliminary report), 175-9.

SHAH, B. K. An identity in univariate and multivariate analysis and multivariate mean square successive difference, 175-2.

SHAH, B. K. On the central and noncentral distribution of an analogue of the student t-statistic, 177-25.

SHAKED, Moshe. Dispersive ordering of distributions, 176-11.

SHAKED, Moshe. A general theory of some positive dependence notions, 81t-37.

SHAKED, Moshe and SINGPURWALLA, Nozer D. Inference for step-stress accelerated life tests, 81t-46.

SHANBHAG, D. N. and KOTZ, Samuel. Some new approaches to multivariate probability distributions, 81t-16.

SHARMA, Divakar. Sufficiency of sufficient statistic for non-randomized equivariant estimation, 81t-105.

SHOEMAKER, Lewis H. Robust estimation and testing in variance component models, 176-28.

SIDDIQUI, M. M. The consistency of a matching test, 177-52.

SIDDIQUI, M. M. and IZENMAN, Alan J. High-resolution frequency analysis of sunspot numbers, 177-55.

SIEGEL, Andrew F. and HOLST, Lars. Covering the circle with random arcs of random sizes, 177-94.

SIEGEL, Andrew F. and SUGIHARA, George. Moments of particle size distributions under sequential breakage with application to species abundance, 176-34.

SIEGMUND, David. Large deviations for boundary crossing probabilities, 81t-69.

SILVERSTEIN, Jack W. Eigenvalues and eigenvectors of large dimensional random matrices, 175-11.

SINGH, JAGBIR and DINH, Khoan T. Minimum variance unbiased estimation of multivariate normal distribution and inferences, 178-22.

SINGH, Kesar, COHEN, Arthur and MARDEN, John. Asymptotic and non-asymptotic optimality properties for combined tests, 81t-27.

SINGPURWALLA, Nozer D. and SHAKED, Moshe. Inference for step-stress accelerated life tests, 81t-46.

SINHA, Bimal K., KARIYA, Takeaki, and SUBRAMANYAM, Kasala. Nearly efficient estimators based on order statistics, 175-15.

SINHA, Bikas Kumar and MUKERJEE, Rahul. On the need to redefine universal optimality criterion of Professor Kiefer for full rank models, 81t-44.

SINHA, Bikas Kumar and SAHA, Gour Mohan. Some combinatorial aspects of designs useful in group testing experiments, 81t-14.

SINHA, Bikas K. and SAHA, G. M. Some combinatorial aspects of designs useful in group testing experiments--an addendum, 81t-75.

SMITH, Patricia L., EUBANK, Randall and SMITH, Philip W. Asymptotic and uniqueness properties of regression designs for certain time series models, 177-12.

SMITH, Philip W., EUBANK, Randall and SMITH, Patricia L. Asymptotic and uniqueness properties of regression designs for certain time series models, 177-12.

SOEWIGNJO, Soetarto S. Conditions for asymptotic independence in bivariate cdf iteration, 177-81.

SONG, Chwan-chin. Covariance stabilizing transformations (preliminary report), 175-10.

SORTRES, David and MATUSZEWSKI, Andrzej. Pitman efficiencies of test to compare location parameters for ordinal data, 177-3.

SPECKMAN, Paul. Asymptotic mean square error for smoothing splines, 177-71.

SPIEGELMAN, Clifford. Some ways to introduce nonparametric regression approaches into the structural form of the errors in variables problem (preliminary report), 177-96.

SPIEGELMAN, Clifford, KARADAR, Karen and RICE, John. Robust Minimax estimation of location in small samples (preliminary report), 177-90.

SPRINGER, Melvin D. The distribution of Wilks' L_1 statistic (preliminary report), 177-59.

SPURRIER, John D. Comparison of two independent life tests subject to type II censoring, 178-6.

STONE, Charles J. Nonparametric regression: a partial survey (preliminary report), 175-24.

STRUTHERS, C. A. and KALBFLEISCH, J. D. On the effects of omitting concomitants in proportional hazards modelling, 178-20.

STYAN, G. P. H. and ANDERSON, T. W. Cochran's theorem, rank additivity and tripotent matrices, 81t-17.

SUBBAIAH, Perla and MUDHOLKAR, Govind S. Polars of partial sum norms and their application for MANOVA problem (preliminary report), 177-89.

SUBRAMANYAM, Kasala, KARIYA, Takeaki and SINHA, Bimal K. Nearly efficient estimators based on order statistics, 175-15.

SUGIHARA, George and SIEGEL, Andrew F. Moments of particle size distributions under sequential breakage with application to species abundance, 176-34.

SUKHATME, Shashikala. Asymptotic properties of some modified goodness-of-fit statistics: a new approach, 177-66.

SUSARLA, V. and KOUL, H. L. Adaptive efficient estimation in linear regression, 81t-109.

SUSARLA, V. and GARDINER, Joseph C. Properties of a nonparametric estimator of the survival function under progressive censoring, 178-21.

SWITZER, Paul. Environmental monitoring poses challenging problems for the theory and application of stochastic processes, 176-2.

TANEJA, Vidya S. and DUDEWICZ, Edward J. The heteroscedastic method: multivariate implementation, 177-38.

TANNY, David and COFFEY, John. A necessary and sufficient condition for non-certain extinction of a supercritical branching process in a random environment (BPRE), 81t-78.

TAYLOR, Robert Lee and CALHOUN, Carol Ann. Stochastic convergence of randomly weighted sums of random elements, 177-35.

THEODORESCU, Radu and BERTIN, Emile. Some characterizations of discrete unimodality, 81t-43.

THEODORESCU, R., BERTIN, E. M. J. and HENTGARTNER, W. Some characterizations of unimodal distribution functions, 81t-29.

THEODORESCU, Radu and KALIN, Dieter. A learning approach to sequential design, 81t-40.

THEODORESCU, Radu and KALIN, Dieter. A note on structural properties of the Bernoulli two-armed bandit problem, 81t-80.

THEODORESCU, Radu and KALIN, Dieter. On a stopping rule for a class of sequential decision problems, 81t-20.

THEODORESCU, Radu and NADEAU, Raymond. Restricted Bayes strategies for convex stochastic programs, 81t-79.

THEODORESCU, Radu and PRUSCHA, Helmut. Stationary probability distributions for multiresponse linear learning models, 81t-41.

THEODORESCU, Radu and RICKERT, Udo. Stationary probabilities and asymptotic behaviour of a non-Markovian model with linear transition rule, 81t-42.

THEODORESCU, Radu and WOLFF, Hans. On dynamic stochastic approximation, 81t-68.

TONG, H. On a dynamic bilinear transformation, 81t-24.

TONG, H. On a modified Markov bilinear stochastic process in discrete time, 81t-67.

TONG, H. and PEMBERTON, J. A note on the distribution of non-linear autoregressive stochastic processes, 81t-18.

TONG, Y. L. A rectangular probability inequality for Schur-Concave random variables, 177-84.

TORTORELLA, M. Preservation of stationarity under random transformations, 177-102.

TRAWINSKI, B. J. Distribution-free locally precise estimation of densities: II. Properties of the estimator (preliminary report), 177-57.

TRAWINSKI, B. J. and TRAWINSKI, Irene M. A multivariate approach to distribution-free density estimation (preliminary report), 177-56.

TRAWINSKI, Irene M. and TRAWINSKI, B. J. A multivariate approach to distribution-free density estimation (preliminary report), 177-56.

TUCKER, William T. On the optimality of generalized exponential smoothing or a poor person's Box-Jenkins, 177-60.

TWEEDIE, Richard L. Applied probability approaches to two unusual data sets, 177-14.

TWEEDIE, R. L. Criteria for rates of convergence of Markov chains, 81t-94.

TYLER, D., GUTTMAN, I. and MENZEFRICKE, U. Multiplicative effects in the normal multivariate model, 177-103.

UMBACH, Dale, ALI, Mir Masoom and HASSANEIN, Khatab M. Small sample estimation of exponential quantiles with two order statistics, 81t-50.

UMBACH, Dale, ALI, Mir Masoom and HASSANEIN, Khatab M. Small sample quantile estimation of Pareto populations using two order statistics, 81t-51.

URY, Hans K. and WIGGINS, Alvin D. On the optimality of the sample size ratio $\sqrt{p}$ for control group relative to each of p treatment groups under shift alternatives, 81t-90.

VARDI, Y. Nonparametric estimation in renewal processes, 177-20.

WANG, John L. G. and HAN, Chien-pai. A formula for the noncentral F distribution, 177-58.

WAUGH, W. A. O'N. Application of the Galton-Watson process to the kin number problem, 81t-3.

WEERAHANDI, Samaradasa. Improving the MLE of the mean of univariate normal distribution under a natural loss function (preliminary report), 81t-60.

WEHRLY, Thomas E. and LARICCIA, Vincent N. Minimum quantile distance estimators for randomly censored data (preliminary report), 177-68.

WELLNER, Jon A. Estimating a distribution function with random censorship, 81t-55.

WELLNER, Jon A. and BEGUN, Janet M. A representation theorem for estimates of relative risk, 81t-56.

WHITE, John S. The generalized Cameron-Martin distribution, 177-34.

WHITE, Tom and FRANK, Jess. Analysis of covariance matrices with linear structure: a computer program, 176-35.

WIGGINS, Alvin D. and URY, Hans K. On the optimality of the sample size ratio $\sqrt{p}$ for control group relative to each of p treatment groups under shift alternatives, 81t-90.

WOLFE, Stephen James. Continuity properties of Lévy probability measures on Banach spaces, 177-67.

WOLFF, Hans and THEODORESDCU, Radu. On dynamic stochastic approximation, 81t-68.

WOLPERT, Robert L. A prediction problem for multiparameter processes (preliminary report), 175-27.

WU, Chien-fu. On the convergence of EM algorithm, 81t-85.

WU, L., CHOW, Y.-S., and GEMAN, S. Consistent cross-validated density estimation, 177-62.

XEKALAKI, Evdokia. Some properties of the Yule distribution, 177-40.

YOHAI, Víctor Jaime and BUSTOS, Oscar. Robust estimates for ARMA models, 177-78.